

Q. 19. Find the shortest distance between lines

$$\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4} \text{ and } \frac{x-2}{3} = \frac{y-4}{4} = \frac{z-5}{5} \quad (3)$$

Q. 20. Lines $\vec{r} = (\hat{i} + \hat{j} - \hat{k}) + \lambda(2\hat{i} - 2\hat{j} + \hat{k})$ and $\vec{r} = (4\hat{i} - 3\hat{j} + 2\hat{k}) + \mu(\hat{i} - 2\hat{j} + 2\hat{k})$ are coplanar. Find the equation of the plane determined by them. (3)

Q. 21. If $y = \sqrt{\tan x + \sqrt{\tan x + \sqrt{\tan x + \dots + \infty}}}$, then show that $\frac{dy}{dx} = \frac{\sec^2 x}{2y-1}$.

Find $\frac{dy}{dx}$ at $x = 0$. (3)

Q. 22. Find the approximate value of $\sin(30^\circ 30')$.

Given that $1^\circ = 0.0175^\circ$ and $\cos 30^\circ = 0.866$ (3)

Q. 23. Evaluate $\int x \tan^{-1} x \, dx$ (3)

Q. 24. Find the particular solution of the differential equation

$$\frac{dy}{dx} = e^{2y} \cos x, \text{ when } x = \frac{\pi}{6}, y = 0. \quad (3)$$

Q. 25. For the following probability density function of a random variable X , find (a) $P(X < 1)$ and (b) $P(|X| < 1)$.

$$f(x) = \frac{x+2}{18}; \text{ for } -2 < x < 4$$

$$= 0, \text{ otherwise} \quad (3)$$

Q. 26. A die is thrown 6 times. If 'getting an odd number' is a success, find the probability of at least 5 successes. (3)

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